ELSEVIER

Protein Structure & Molecular Enzymology

Vol. 1297, 1996

BBA Biochimica et Biophysica Acta

Cumulative Contents

Information for Contributors vii

Regular papers

D-Arabinose dehydrogenase and biosynthesis of erythroascorbic acid in *Candida albicans*
S.-T. Kim, W.-K. Huh, J.-Y. Kim, S.-W. Hwang and S.-O. Kang (South Korea) 1

A comprehensive survey of the acid-stable fluorescent cross-links formed by ribose with basic amino acids, and partial characterization of a novel Maillard cross-link
L. Graham (USA) 9

Analysis of wild-type and mutant aspartate aminotransferases using integrated rate equations
M.R. Schiller, L.D. Holmes and E.A. Boeker (USA) 17

Mavicyanin, a stellacyanin-like protein from zucchini peelings: primary structure and comparison with other cupredoxins
M.E. Schininà, S. Maritano, D. Barra, B. Mondovì and A. Marchesini (Italy) 28

Hydrogen peroxide-dependent 4-*t*-butylphenol hydroxylation by tyrosinase — a new catalytic activity
M. Jiménez and F. García-Carmona (Spain) 33

Hydrogen-exchange kinetics in the cold denatured state of ribonuclease A
D. Nash, B.-S. Lee and J. Jonas (USA) 40

Structure of chymotrypsin variant B from Atlantic cod, *Gadus morhua*
R. Leth-Larsen, B. Ásgeirsson, M. Thórólfsson, M. Nørregaard-Madsen and P. Højrup (Denmark, Iceland) 49

HSP binding and mitochondrial localization of p53 protein in human HT1080 and mouse C3H10T1/2 cell lines
B.A. Merrick, C. He, L.L. Witcher, R.M. Patterson, J.A.J. Reid, P.M. Pence-Pawlowski and J.K. Selkirk (USA) 57

Interaction of alkaline phosphatase with cytochrome *c*
V. Dadák, O. Vrána, O. Nováková and M. Antalík (Czech Republic, Slovak Republic) 69

Effect of cholesterol on rhodopsin stability in disk membranes
A.D. Albert, K. Boesze-Battaglia, Z. Paw, A. Watts and R.M. Epand (USA, UK, Canada) 77

Action on bovine α_{S1}-casein of cardosins A and B, aspartic proteinases from the flowers of the cardoon *Cynara cardunculus* L.
M. Ramalho-Santos, P. Veríssimo, C. Faro and E. Pires (Portugal) 83

In vivo incorporation of lipoic acid enantiomers and homologues in the pyruvate dehydrogenase complex from *Escherichia coli*
S. Loeffelhardt, H.O. Borbe, M. Locher and H. Bisswanger (Germany) 90

Trp-16 is essential for the activity of α-galactosidase and α-*N*-acetylgalactosaminidase
A. Zhu, C. Monahan and Z.-K. Wang (USA) 99

Acetyl-CoA hydrolase involved in acetate utilization in *Saccharomyces cerevisiae*
F.-J.S. Lee, L.-w. Lin and J.A. Smith (USA, Taiwan, R.O.C.) 105

Information for Contributors v

Rapid reports

Identification of residues in α-macroglobulins involved in activation of the α_2-macroglobulin signaling receptor
G.C. Howard, D.L. DeCamp, U.K. Misra and S.V. Pizzo (USA) 111

Lack of size and shape alteration of oxygenated and deoxygenated *Lumbricus terrestris* hemoglobin?
A. Krebs, P. Zipper and S.N. Vinogradov (Austria, USA) 115

Evidence for the molten globule state of human apo-ceruloplasmin
V. De Filippis, V.B. Vassiliev, M. Beltramini, A. Fontana, B. Salvato and V.S. Gaitskhoki (Italy, Russia) 119

Short sequence-papers

Characterization of an hsp70 related clone encoding a 33 kDa protein with homology to a protein which associates with polysomes
M.-S. Chen, A. Fornace Jr. and A. Laszlo (USA) 124

Primary structure of the plant serpin BSZ7 having the capacity of chymotrypsin inhibition
S.K. Rasmussen, J. Klausen, J. Hejgaard, B. Svensson and I. Svendsen (Denmark) 127

Review

Structure and regulation of calcium/calmodulin-dependent protein kinases II and IV
T.R. Soderling (USA) 131

Regular papers

Purification and characterization of two manganese peroxidase isozymes from the white-rot basidiomycete *Dichomitus squalens*
F.H. Périé, D. Sheng and M.H. Gold (USA) 139

Construction of a dimeric form of glutamate dehydrogenase from *Clostridium symbiosum* by site-directed mutagenesis
A. Pasquo, K.L. Britton, T.J. Stillman, D.W. Rice, H. Cölfen, S.E. Harding, R. Scandurra and P.C. Engel (Italy, UK) 149

C1q is a nucleotide binding protein and is responsible for the ability of clusterin preparations to promote immune complex formation
P.J. Roeth and S.B. Easterbrook-Smith (Australia) 159

Secondary structure and thermostability of the photosystem II manganese-stabilizing protein of the thermophilic cyanobacterium *Synechococcus elongatus*
M. Sonoyama, A. Motoki, G. Okamoto, M. Hirano, H. Ishida and S. Katoh (Japan) 167

Thermal stability of calf skin collagen type I in salt solutions
R. Komsa-Penkova, R. Koynova, G. Kostov and B.G. Tenchov (Bulgaria) 171

The effects of adriamycin and adriamycin complexes with transitional metals on Ca^{2+}-dependent K^+ channels of human erythrocytes
T.K. Davtyan, A.V. Gyulkhandanyan, S.S. Gambarov, L.A. Avanessian and Y.T. Alexanyan (Armenia) 182

Discovery of a new tetrahydrobiopterin-synthesizing enzyme in the *lemon* mutant of the silkworm *Bombyx mori*
T. Iino, H. Sawada, M. Tsusué and S.-I. Takikawa (Japan) 191

Overexpression in *E. coli* of the complete *pet*H gene product from *Anabaena*: purification and properties of a 49 kDa ferredoxin-$NADP^+$ reductase
M. Martínez-Júlvez, J.K. Hurley, G. Tollin, C. Gómez-Moreno and M.F. Fillat (Spain, USA) 200

pH-dependent and ligand induced conformational changes of eucaryotic protein synthesis initiation factor eIF-(iso)4F: a circular dichroism study
Y. Wang, M. Sha, W.Y. Ren, A. Van Heerden, K.S. Browning and D.J. Goss (USA) 207

The rate of annealing of actin tropomyosin filaments depends strongly on the length of the filaments
A. Teubner and A. Wegner (Germany) 214

Human placental estradiol 17β-dehydrogenase: structural and catalytic changes during urea denaturation
G. Mendoza-Hernández and J.L. Rendón (Mexico) 219

Regulation of the *Escherichia coli* biosynthetic ornithine decarboxylase activity by phosphorylation and nucleotides
C.G. Anagnostopoulos and D.A. Kyriakidis (Greece) 228

Further studies on the bioaffinity chromatography of NAD^+-dependent dehydrogenases using the locking-on effect
P. O'Carra, T. Griffin, M. O'Flaherty, N. Kelly and P. Mulcahy (Ireland) 235

Inhibition of the glucose-6-phosphatase system by *N*-bromoacetylethanolamine phosphate, a potential affinity label for auxiliary proteins
J.D. Foster, B.A. Pederson and R.C. Nordlie (USA) 244

Cumulative contents 255

Author index 257